

We claim:

1. A low-inductance electromagnetic drive without driving magnetic flux circuit, comprising:

a magnetic pole 1, a drive coil 2, an upper magnetic inductive board 4, a permanent-magnet 5, a lower magnetic-inductive board 6, said magnetic pole 1 being integrated with said magnetic-inductive lower board 6; said permanent magnet 5 being located between said upper magnetic-inductive board 4 and lower magnetic-inductive board 6; said drive coil 2 is covered around said magnetic pole 1 and is movable in the axial direction; wherein the electromagnetic drive is characterized by further comprising a first fastening coil 3 with an inductance amount approximating to the equivalent inductance of the drive coil; said first fastening coil 3 is fixed at a proper position in the magnetic flux circuit and connected with the drive coil 2 in opposite phase to receive the equivalent and opposite excitation.

2. The electromagnetic drive of claim 1, wherein said first fastening coil 3 is located between said drive coil 2 and magnetic pole 1, fixed to said magnetic pole 1, and connected with the drive coil 2 by opposite phase in the form of the smallest inductance quantity to receive the equivalent excitation of opposite phase.

3. The electromagnetic drive of claim 1, wherein said first fastening coil 3 is fixed to said upper magnetic-inductive board 4, and connected with the drive coil 2 by opposite phase in the form of the smallest inductance quantity to receive the equivalent excitation of opposite phase.

4. The electromagnetic drive of claim 2 or 3, wherein said first fastening coil 3 is connected with said drive coil 2 by opposite phase in series connection or parallel connection to receive the equivalent excitation of opposite phase.

5. A low-inductance electromagnetic drive without driving magnetic flux circuit, comprising:

a magnetic pole 1, a drive coil 2, an upper magnetic-inductive board 4, a permanent magnet 5, a lower magnetic-inductive board 6; said magnetic pole 1 is connected with said lower the magnetic-inductive board 6 integrative, said permanent

magnet 5 locates between said upper magnetic-inductive board 4 and lower magnetic-inductive board 6; said drive coil 2 is covered around the magnetic pole 1 and is removable in the axial direction, wherein the electromagnetic drive is characterized by further comprising a first fastening coil 3 and a second fastening coil 7, the total inductance quantity of the two fastening coils is approximate to the equivalent inductance of said drive coil 2, said first fastening coil 3 and second fastening coil 7 are fixed at a proper position in the magnetic flux circuit, and both connected with the drive coil 2 in opposite phase to receive the equivalent excitation of opposite phase.

6. The electromagnetic drive of claim 5, wherein said first fastening coil 3 and second fastening coil 7 are both fixed on the magnetic pole 1 and are both connected with the drive coil 2 by opposite phase in the form of the smallest inductance quantity to receive the equivalent excitation of opposite phase.

7. The electromagnetic drive of claim 5, wherein said first fastening coil 3 and second fastening coil 7 are fixed to the magnetic pole 1 and upper magnetic-inductive board 4 respectively, and they are both connected with the drive coil 2 by opposite phase in the form of the smallest inductance quantity to receive the equivalent excitation of opposite phase.

8. The electromagnetic drive of claim 6 or 7, wherein said first fastening coil 3 and the second fastening coil 7 are connected with the drive coil 2 by opposite phase in series connection or parallel connection to receive the equivalent excitation of opposite phase.

9. The electromagnetic drive of claim 6 or 7, wherein said first fastening coil 3 and the second fastening coil 7 are connected with the drive coil 2 by opposite phase in series connection and parallel connection to receive the equivalent excitation of opposite phase.

10. The electromagnetic drive of any one of claim 1 to 9, wherein said first fastening coil 3 is made of magnetic metal used for magnetic conductor.